

# Srihari Humbarwadi

Bangalore, India

sriharihumbarwadi97@gmail.com

Portfolio: <http://www.sriharihumbarwadi.com>

Github: <http://github.com/srihari-humbarwadi>

## SKILLS

---

- Strong analytical and problem solving ability.
- Good understanding of web security practices, OWASP top 10.

## EDUCATION

---

Belagavi, Karnataka

KLS Gogte Institute of Technology

2014 – 2018

- B.E. in Computer Science and Engineering. Percentage (*up to 7<sup>th</sup> semester*): 65%
- 10<sup>th</sup> percentage (95.96%), 12<sup>th</sup> percentage (95%, PCM)

## TECHNICAL EXPERIENCE AND PROJECTS

---

- **Detecting ransomware delivery using deep neural networks (Python)**: The delivery of ransomware/malware can be detected by using *timing* and *URI* microbehaviors as features for DNN. This model classifies each network capture file (PCAP) as benign or exploit – if classified as exploit it alerts the sysadmin to take further actions. Eg: Apply new GPO for the AD. (originally researched by Rod Soto and Joseph Zadeh)
- **Image recognition with serverless web application (AWS Lambda, Rekognition, API Gateway)**: A simple serverless web application which accepts images from users and identifies all the human faces present in it.
- **Token based authentication for REST endpoints (Python)**: Provides a simple and light weight method to authenticate API requests, with the use of single use tokens.
- **Text to speech (AWS Polly, lambda, API gateway)**: Simple web application using AWS services to convert given input into speech, with option to change the accent.
- **URL Shortener (Android, Java)**: Offers to shorten the input of long URL into a short and easily exchangeable URL, the short URL can be user defined.
- **Network reconnaissance (PowerShell, .NET)**: Scans the network for any intruders, and has option to scan open ports for a given node.
- **HID based key stroke injection (Arduino, embedded C, PowerShell)**: Programmed a arduino based chip to behave as a HID device (keyboard) and send keystrokes when plugged in. Eg: Upon plugging in, it is capable of quickly running a one liner TCP reverse shell command on PowerShell, or steal saved passwords from Google Chrome.
- **Reverse Shell with backdoor-ed executable (Fully undetected) (PowerShell)**: Created a reverse shell payload and backdoor-ed it inside an executable. The code was obfuscated to avoid triggering the anti-virus software.
- **Containerized Steam (Docker, Linux)**: Created a Docker image to run steam containerized, with support for GPU acceleration. The image was tested to run 10 parallel instances of steam on a single host OS successfully.

## ADDITIONAL EXPERIENCE

---

- Generated vulnerability Assessment report for a well-known college, and helped to get the vulnerabilities patched.
- First Place, algorithmic coding event – “Knightron”.
- Solved 200+ coding problems on online platforms (Hackerearth, Hackerrank, Leetcode).
- Solved good number of CTFs on online platforms (Vulnhub, DVWA, Juice-shop, Google Gruyere).

## Languages and Technologies

---

- **Languages**: C++, Python, bash
- **Frameworks and Technologies**: Docker, AWS, HTML, CSS, Burp suit, Metasploit, Git versioning, Keras, scikit-learn, Pytorch